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JAPANESE PATENT ABSTRACT

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TI - MAGNETIC POWDER FOR MAGNETIC RECORDING MEDIUM, MAGNETIC CARD USING MAGNETIC POWDER, AND MANUFACTURE OF MAGNETIC CARD

AB - PROBLEM TO BE SOLVED: To increase a coercive force and obtain excellent dispersion in magnetic coating by hydrogenating magnetic powder comprising rare earth elements, including Y which is expressed by a specific expression and includes Sm as its essential component, and a transition metal including the main component of Co, within a specific temperature range, before the coating is formed by using the magnetic powder.

- SOLUTION: The magnetic powder is expressed by Rx T100-x-y My (R designates at least one element selected from rare earth elements including Y which includes Sm as its essential component, T designates at least one element selected from a transition metals Fe, Co, Ni including Co as its main component, and M designates at least one of Si, Ti, Al, Ga, V, Cr, Mn, Cu, Zr, Nb, Mo, Pd, Hf, Ta, W, Pt and Au. The composition value x of R is 16.0-22.0 (at%), the composition value y of M is $0 < y < 30.0$ (at%). Before the coating is formed by using the magnetic powder, the magnetic powder is hydrogenated within a temperature range from the liquid nitrogen temperature to 200 deg.C.

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